

# WATER QUALITY MEMORANDUM

## Utah Coal Regulatory Program

---

October 28, 2009

TO: Internal File

THRU Daron R. Haddock, Permit Supervisor

FROM: James D. Smith, Environmental Scientist III *DS 10/28/09*

RE: 2009 First Quarter Water Monitoring, PacifiCorp, Deer Creek Mine. C/015/0018,  
Recurring Task ID #3246

The Deer Creek Mine monitoring plan is described in Appendix A of Volume 9 of the MRP.

1. Were data submitted for all of the MRP required sites?

Streams	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
UPDES	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
In-mine	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
Springs	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>

NEWUA Meter 2 was not accessible during the First Quarter 2009.

Wells	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
-------	---	-----------------------------

2. Were all required parameters reported for each site? YES ☒ NO ☐

3. Were any irregularities found in the data?

Listed parameters were more than two standard deviations from the mean. An asterisk (\*) indicates this is not a parameter specifically required by the MRP.

**Streams**

YES ☒ NO ☐

DCR04 February: flow;  
DCR04 March: flow and K;  
DCR06 February: flow;  
DCR06 March: flow, K, bicarbonate as CaCO<sub>3</sub>, Total alkalinity,  
HCC01 March: field electrical conductivity;  
HCC02 March: field electrical conductivity, Mg, K, lab electric conductivity\*,  
and TDS;  
HCC04 March: field electrical conductivity, K;  
RCW4 March: field electrical conductivity, Ca, Mg, K, SO<sub>4</sub>, total hardness, lab  
electric conductivity\*, TDS, total cations\*, total anions\*;

**UPDES**

YES ☒ NO ☐

UT0023604-001 February: cation - anion balance;  
UT0023604-001 March: cation - anion balance;

**In-mine**

YES ☐ NO ☒

**Springs**

YES ☒ NO ☐

NEWUA Meter 3 March: Total Fe\*  
Mine Site 4: Ca, Total Hardness, lab electric conductivity\*, TDS, Total cations\*

**Wells**

YES ☐ NO ☒

**4. On what date does the MRP require a five-year resampling of baseline water data.**

Baseline analyses were performed in 2001 and are to be repeated every 5 years; baseline analyses were done in 2006 and should be done again in 2011: this schedule applies to all the PacifiCorp mines, irrespective of the permit renewal date. For the Deer Creek Mine, renewal submittal is due 10/07/10, and renewal is due 02/07/11.

**5. Based on your review, what further actions, if any, do you recommend?**

There is no indication of trends or extremes in any of the parameter values. No further action recommended at this time.

**6. Does the Mine Operator need to submit more information to fulfill this quarter's monitoring requirements?**

YES ☐ NO ☒

**7. Follow-up from last quarter, if necessary.**

None.

**8. Did the Mine Operator submit all the missing and/or irregular data (datum)?**

Yes.